

Appl. No. 10/092,427
Amendment dated: October 22, 2003
Reply to OA of: July 29, 2003

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

1(currently amended). A luminous device ~~comprised~~ comprises of:

A substrate;

A plurality of transparent electrodes, in which a plurality of convex transparent electrodes are formed onto the substrate in ordered arrangement with an appropriate distance between each other;

A conductive layer, which is located on the top layer of the luminous device and parallel to the substrate;

RI An insulating positive photoresist film layer, formed ~~in which it forms~~ between the substrate and a conductive layer, by using the exposing and developing method to remove a plurality of insulating film on the central portion of the transparent electrodes ~~[[but]]~~ wherein the edge portion of the transparent electrode is still covered by an insulating film~~[[]]~~, thereby forming ~~it forms~~ a plurality of insulating film layers between the cavity and insulating convex, at the bottom of the cavity is a transparent electrode, and the two ~~[[side]]~~ sides of the cavity are the insulating film material;

A hole-transport layer, ~~in which it forms onto a~~ on the hole-injection layer in an insulating film cavity;

A light-emitting layer, ~~in which it forms onto a~~ on the hole-transport layer in an insulating film cavity; and

An electron-transport layer, ~~in which it forms a~~ on the light-emitting layer in an insulating film cavity, ~~through the composition described above it forms a luminous device.~~

2(currently amended). A luminous device of claim 1 wherein said the substrate can be ~~is selected from glass or a plastic film.~~

Appl. No. 10/092,427
Amendment dated: October 22, 2003
Reply to OA of: July 29, 2003

3(currently amended). A luminous device of claim 1 wherein ~~said~~ the thickness range of the insulating film layer is 50 ~ 5000 nm for a positive photoresist insulating film, and the composition of the insulating film includes phenolic resin, photoactive compound, thermosetting resin, and/or catalyst, solvent, and/or other adhesive promoter.

4(currently amended). ~~The composition of an insulating film layer of claim 1~~ wherein A luminous device of claim 3 wherein ~~[[said]]~~ the insulating positive photo resist has a convex top face [is] has a smooth convex ball face shape, and its convex angle is an inclining obtuse angle, forming it becomes a gradient smooth gradient and gradually widening shape from the top face to the bottom face.

5(currently amended). A luminous device of claim [1] 3 wherein ~~[[said]]~~ the insulating convex shape results from the method of postbake heated reflow.

6(currently amended). A luminous device of claim 1 wherein ~~said~~ the material of a plurality of transparent electrodes can be selected from the group consisting of indium-tin-oxide (ITO)~~[[,]]~~ and indium-zinc-oxide (IZO)~~[[, etc]]~~.

7(currently amended). A luminous device of claim 1 wherein ~~said~~ the material of the conductive layer ~~can be~~ is selected from the grouping consisting of Al, Ca, Mg, Li, and ~~[[its]]~~ lithium alloy.

8(currently amended). ~~The composition of an insulating film layer of claim 3~~ A luminous device of claim 3 wherein ~~said~~ ~~[[the]]~~ thermosetting resin is ~~can be~~ selected from the group consisting of melamine formaldehyde resins, benzoguanamine formaldehyde resins, [or] and glycoluril formaldehyde resins.

Appl. No. 10/092,427
Amendment dated: October 22, 2003
Reply to OA of: July 29, 2003

91 9(currently amended). A luminous device of claim 1 wherein said ~~[[the]]~~ catalyst is acidic or potentially acidic, and the acid is released during the bake.
